PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: MATTHEW E. HINSCH TOWNSEND AND TOWNSEND AND CREW LLP	PCT	
TWO EMBARCADERO CENTER 8TH FLOOR SAN FRANCISCO, CA 94111	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION	
	(PCT Rule 44.1)	
	Date of Mailing (day/month/year) 5-29-02	
Applicant's or agent's file reference 19801-2-4PC	FOR FURTHER ACTION See paragraphs 1 and 4 below	
International application No. PCT/US02/05804	International filing date (day/month/year) 25 FEBRUARY 2002	
Applicant CELLGATE, INC. J		
Filing of amendments and statement under Artic The applicant is entitled, if he so wishes, to amend When? The time limit for filing such amendment international search report. Where? Directly to the International Bureau of 1211 Geneva 20, Switzerland, Facsimi For more detailed instructions, see the notes on Article 17(2)(a) to that effect is transmitted herewise. With regard to the protest against payment of (a) the protest together with the decision thereon applicant's request to forward the texts of be no decision has been made yet on the protest Shortly after 18 months from the priority date, the internal applicant wishes to avoid or postpone publication, a notice of must reach the International Bureau as provided in rules 90 preparations for international publication. Ch 2 December 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	neets is normally two months from the date of transmittal of the WIPO, 34 chemin des Colombettes ile No.: (41-22) 740.14.35 In the accompanying sheet. al search report will be established and that the declaration under th. In) additional fee(s) under Rule 40.2, the applicant is notified that: It has been transmitted to the International Bureau together with the ooth the protest and the decision thereon to the designated Offices. It; the applicant will be notified as soon as a decision is made. It ional application will be published by the International Bureau. If the of withdrawal of the international application, or of the priority claim, bis. 1 and 90bis. 3, respectively, before the completion of the technical ent of some designated Offices, a demand for international preliminary me the entry into the national phase until 30 months from the priority date, perform the presecribed	
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Porm PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicants's Guide, Volume II, National Chapters and the WIPO Internet site.		
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks	Authorized officer JEFFREY E. RUSSEL	
Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	JEFFREY E. RUSSEL Roberts Gor Telephone No. (703) 308-0196	

Form PCT/ISA/220 (April 2002) *

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: MATTHEW E. HINSCH TOWNSEND AND TOWNSEND AND CREW LLP	PCT
TWO EMBARCADERO CENTER 8TH FLOOR SAN FRANCISCO, CA 94111	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION
	(PCT Rule 44.1)
	Date of Mailing (day/month/year) 29 WAY 2002
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date (day/month/year) 25 FEBRUARY 2002
PCT/US02/05804	
Applicant CELLGATE, INC.	
1. X The applicant is hereby notified that the internation	nal search report has been established and is transmitted herewith.
Filing of amendments and statement under Arti	cle 19: d the claims of the international application (see Rule 46):
When? The time limit for filing such amenda international search report.	ments is normally two months from the date of transmittal of the
Where? Directly to the International Bureau of 1211 Geneva 20, Switzerland, Facsin	WIPO, 34 chemin des Colombettes nile No.: (41-22) 740.14.35
For more detailed instructions, see the notes of	on the accompanying sheet.
Article 17(2)(a) to that effect is transmitted field	nal search report will be established and that the declaration under vith.
the protest together with the decision thereo	an) additional fee(s) under Rule 40.2, the applicant is notified that: In has been transmitted to the International Bureau together with the both the protest and the decision thereon to the designated Offices.
no decision has been made yet on the prote	est; the applicant will be notified as soon as a decision is made.
must reach the International Bureau as provided in rules 9	national application will be published by the International Bureau. If the of withdrawal of the international application, or of the priority claim, to bis. 1 and 90bis. 3, respectively, before the completion of the technical
date (in some Offices even later); otherwise the applicant acts for entry into the national phase before those design	pect of some designated Offices, a demand for international preliminary some the entry into the national phase until 30 months from the priority must, within 20 months from the priority date, perform the presecribed ated Offices.
In respect of other designated Offices, the time limit of 30	months (or later) will apply even if no demand is filed within 19 months.
See the Annex to Form PCT/IB/301 and, for details about Guide, Volume II, National Chapters and the WIPO Into	ut the applicable time limits, Office by Office, see the PCT Applicants's ernet site.
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks	JEFFREY E. RUSSEL Roberts Gor
Box PCT Washington, D.C. 20231 Facetimile No. (703) 305-3230	Telephone No. (703) 308-0196

Facsimile No. (703) 305-3230
Form PCT/ISA/220 (April 2002) *

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 19801-2-4PC	FOR FURTHER ACTION	see Notification of (Form PCT/ISA/29	Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
International application No.	International filing dat	e (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US02/05804	25 FEBRUARY 2009		25 FEBRUARY 2001
Applicant CELLGATE, INC.			
This international search report has bee according to Article 18. A copy is bein	n prepared by this Interna g transmitted to the Inter	tional Searching Aut national Bureau.	hority and is transmitted to the applicant
This international search report consis	ts of a total of sheet	8.	
X It is also accompanied by a c	opy of each prior art docu	ment cited in this r	eport.
1. Basis of the report			
a With regard to the language, t	he international search was	carried out on the b	asis of the international application in the
the international search was	unless otherwise indicated	under this item.	e international application furnished to th
- Authority (Rule 23.1(B)).			
was carried out on the basis of	and/or amino acid sequence the secuence listing:	e disclosed in the in	ternational application, the international sear-
contained in the internation		orm.	
filed together with the inter	national application in co	mnuter readable for	m
furnished subsequently to the			
furnished subsequently to the			
the statement that the subse			pes not go beyond the disclosure in
the			ical to the written sequence listing has b eer
Turnished.			ical to the written sequence listing has b ee
Certain claims were found	•		
5. Unity of invention is lacking	g (See Box II).		. •
4. With regard to the title,			
X the text is approved as subn	nitted by the applicant.		
the text has been established	d by this Authority to rea	d as follows:	
r Wist			
5. With regard to the abstract,	sisted has the secutions.		
the text is approved as subm			
the text has been established Box III. The applicant may, v search report, submit commo	vithin one month from the), by this Authority date of mailing of the 6-29-02	as it appears in nis international
6. The figure of the drawings to be pu	blished with the abstract	is Figure No. 4	_
as suggested by the applican	t.		Name of the Garrens
because the applicant failed	to suggest a figure.		None of the figures.
X because this figure better ch	aracterizes the invention.		
Form PCT/ISA/010 (Free 1) (I l			

Form PCT/ISA/210 (first sheet) (July 1998)*

International application No. PCT/US02/05804

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

This invention provides compositions and methods for enhancing delivery of drugs and other agents across epithelial tissues, including into and across ocular tissues and the like. The compositions and methods are also useful for delivery across endothelial tissues including the blood brain barrier. The compositions and methods employ a delivery enhancing transporter that has sufficient guanidino or amidino sidechain moieties to enhance delivery of a compound conjugated to the reagent (see Figure 4) across one or more layers of the tissue, compared to the non-conjugated compound. The delivery-enhancing polymers include, for example, poly-arginine molecules that are preferably between about 6 and 25 residues in length.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)★

International application_No.
PCT/US02/05804

A. CLASS	SIFICATION OF SUBJECT MATTER A61K 51/155, 51/522, 58/03, 58/04, 58/13, 58/16		
TIC OI	514/2, 11, 12, 15, 14, 15, 16, 17, 262, 651, 654 o International Patent Classification (IPC) or to both na	ational classification and IPC	
	DS SEARCHED		
	ocumentation searched (classification system followed b	y classification symbols)	
	514/2, 11, 12, 15, 14, 15, 16, 17, 262, 651, 654		
Documentat searched	ion searched other than minimum documentation to th	ne extent that such documents are in	cluded in the fields
Electronic d	lata base consulted during the international search (nam	ne of data base and, where practicable	, search terms used)
Please See	Extra Sheet.		
C. DOC	UMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appr	opriate, of the relevant passages	Relevant to claim No.
A	US 5,716,614 A (KATZ ET AL) 10 Feb entire document.	oruary 1998 (10/02/98), see	1-36
A	US 6,013,628 A (SKUBITZ ET AL) 1 see entire document.	1-36	
x	US 6,089,234 A (R. BRETTON) 18 July document, especially column 5, lines claims 1, 7, and 8.	2000 (18/07/00), see entire 28-30, column 6, line 33,	1-5, 7-9, 20, 21, 23-28, 31, and 34
A, P	WO 01/13957 A2 (CELLGATE, INC.) 01 March 2001 (01/03/01), see entire document.		1-36
X Fur	rther documents are listed in the continuation of Box C	C. See patent family annex.	
•	Special categories of cited documents:	"T" later document published after the is	ppiication but close to an accession
1 '	document defining the general state of the art which is not considered to be of particular relevance earlier document published on or after the international filing date	the principle or theory underlying "X" document of particular relevance; considered novel or cannot be consi	the claimed invention cannot be
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other	when the document is taken alone	the claimed invention cannot be
-0-	special reason (as specified) document referring to an oral disclosure, use, exhibition or other means	occament of particular reportant re- considered to involve an inventive at with one or more other such do obvious to a person skilled in the a	cuments, such combination being
	document published prior to the international filing date but later than the priority date claimed	"A" document member of the same pat	
	he actual completion of the international search Y 2002	Date of mailing of the international 29 MAY	
Commis Box PC		Authorized officer Felicia JEFFREY E. RUSSEL	D. Roberts y
Washing	gton, D.C. 20231	Telephone No. (7 5) 5 8-0196	

, į

International application No. PCT/US02/05804

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ROTHBARD et al. Conjugation of arginine oligomers to cyclosporin A facilitates topical delivery and inhibition of inflammation. Nature Medicine. November 2000, Volume 6, Number 11, pages 1253-1257.	1-36

International application No. PCT/US02/05804

B. FIELDS SEARCHED Electronic data bases consulted (Name of data base and where practicable terms used):	
EAST, DIALOG search terms: eye, ocular, cornea, corneal, retina, retinal, optic, guanidino, amidino, conjugate, polyarginine, linker, acyclovir, cyclosporin	
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Form PCT/ISA/210 (extra sheet) (July 1998)*

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter II.

When? Within 2 months from the date of trensmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time If they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A seplecement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement shoet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate; in connection with each claim appearing in the international application (It being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.